



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR.4/804c/SAND-Gradation/2015-16

: 04.04.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
 * Agency : Technical Manager (West), KRIDL, Bangalore.
 * Name of Work : Improvements to Roads and Drains at Defence Colony 1st B Cross Road and other cross roads near Brahmanara Sanga in Ward No.14, Bagalagunte, BBMP, Bangalore.
 Reference : BBMP/IDZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015
 Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
 Sample ID : Fine Aggregates - (Sample- 1)
 Sample Received on : 01.04.2015
 Date of Testing : 04.04.2015



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.45	90-100	90-100	90-100	95-100
2.36	79.13	60-95	75-100	85-100	95-100
1.18	56.37	30-70	55-90	75-100	90-100
600 Micron	23.74	15-34	35-59	60-79	80-100
300 Micron	10.45	5-20	8-30	12-40	15-50
150 Micron	5.17	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Note:

- The report shall not be reproduced, except in full, without the written approval of the laboratory.
- The results indicated above are based on the tests carried out on the samples received in the laboratory.
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VISHWANATH .C
Quality Manager



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Job No.: CTCB/BBMP/W.No.14/KRIDL/CSR.4/804e/AGG/GR/2015-16

: 04.04.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of Work : Improvements to Roads and Drains at Defence Colony 1st B Cross Road and other cross roads near Brahmanara Sanga in Ward No.14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - (Sample- 1)

Sample Received on : 01.04.2015

Date of Testing : 04.04.2015



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.85	95-100	85-100
20	50.05	30-70	0-20
10	24.10	10-35	0-5
4.75	2.50	0-5	-

Handwritten notes in Kannada: ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ 40mm ಮತ್ತು 20mm ಗಳಿಗೆ ಉಪ ಬಿಭಾಗ ಶ್ರೀ. ದಾಸರಹಳ್ಳಿ ಬಸವೇಶ್ವರ ನಗರ ಪಾಲಿಕೆ ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು - 560 073

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR.4/804e/CC Solid Block/2015-16

: 08.04.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the Work : Improvements to Roads and Drains at Defence Colony 1st B Cross Road and other cross roads near Brahmanara Sanga in Ward No.14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/IDZ/AEE/IDSD/PR/2015-16 Dated: 01.04.2015

Sample Received on : 01.04.2015

Date of Testing : 08.04.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.85	262.5	3.28	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	35.62	260.8	3.26	
3	Block 3	35.97	263.4	3.29	
4	Block 4	36.28	264.9	3.31	
5	Block 5	34.17	262.5	3.28	
6	Block 6	36.23	261.4	3.27	
7	Block 7	35.98	262.9	3.29	
8	Block 8	34.23	263.7	3.30	

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR.4/804e/CUBH/2015-16

18.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Client : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
- * Agency : Technical Manager (West), KRIDL, Bangalore.
- * Name of the work : Improvements to Roads and Drains at Defence Colony 1st B Cross Road and other cross roads near Brahmanara Sanga in Ward No.14, Bagalagunte, BBMP, Bangalore.
- * Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 01.04.2015
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₁₅
- Compressive Strength as on : 28th day



Sample Received on : 20.04.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.04.2015	18.05.2015	8.127	375.8	16.70
2	20.04.2015	18.05.2015	8.362	398.7	17.72
3	20.04.2015	18.05.2015	8.284	386.4	17.17

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